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(71)Applicant : KEIO GIJUKU

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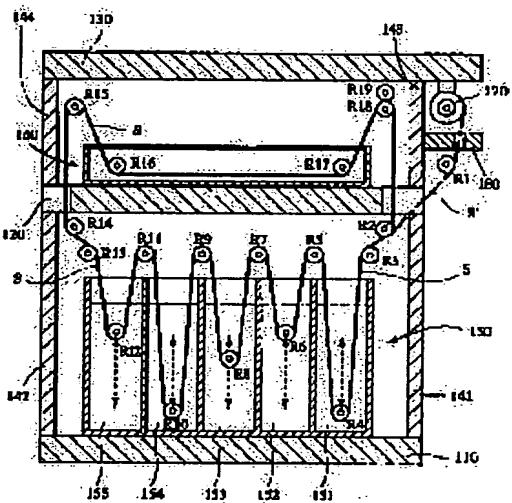
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(54) METHOD AND DEVICE FOR MANUFACTURING ALTERNATE ADSORPTION MEMBRANE

(57)Abstract:

PROBLEM TO BE SOLVED: To mass-produce an alternate adsorption membrane suitable for a filter or the like.

SOLUTION: A positive electrolyte polymer solution is put into a water bath 151, a negative electrolyte polymer solution is put into a water bath 154 and water for a rinsing bath is put into residual water baths 152, 153, 155, 160. A roll-shaped fiber material is set to a roll holding part 170, one end thereof is drawn out along an introducing route S', is drawn around along rollers R1 to R18, is cut after making a round and both ends are sewn together to make an annular structure along a circuit S. When the annular fiber material is rotary-driven along the circuit S by a driving roller R19, the positive electrolyte polymer and the negative electrolyte polymer are alternately adsorbed on a surface of the fiber material to form the alternate adsorption membrane having multi-layer structure. The alternate adsorption membrane can be utilized as the filter.



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2 K 0 0 9
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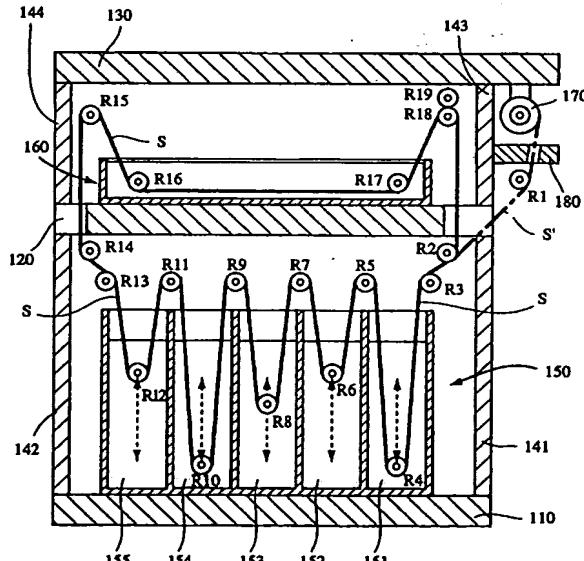
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(54)【発明の名称】 交互吸着膜の製造方法および製造装置

(57)【要約】

【課題】 フィルタなどに適した交互吸着膜を量産する。

【解決手段】 水槽151に正の電解質ポリマー溶液を入れ、水槽154に負の電解質ポリマー溶液を入れ、残りの水槽152, 153, 155, 160には rinsing 用の水を入れる。ロール状の繊維材料をロール保持部170にセットし、その一端を導入路S'に沿って引き出し、ローラR1～R18に沿って引き回し、一巡したところで切断して両端を縫合し、循環路Sに沿った環状の構造体にする。駆動ローラR19により、環状の繊維材料を循環路Sに沿って回転駆動させると、繊維材料の表面上に、正の電解質ポリマーと負の電解質ポリマーとが交互に吸着し、多層構造をもつた交互吸着膜が形成される。この交互吸着膜はフィルタとして利用できる。



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